

SUBSTATION PERMITTING & SITING

September 27, 2017
Sheraton Denver Downtown Hotel
Denver, CO



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OVERVIEW

Permitting and siting substations is a daunting task – with numerous regulatory hurdles in the process. Successful project collaboration among agencies, community groups, and transmission developers is key to overcoming challenges and getting projects built. This conference will discuss project planning and feasibility. United Illuminating will explain how to design a substation with the community in mind. Southern California Edison will discuss the measures they take regarding public participation in substation siting.

Attendees will discuss permitting and siting from a regulatory perspective, including federal, state, and local requirements. They will review Clean Water Act Section 404 permitting, assess considerations for substation construction & describe air permitting for new substations. Expert speakers will discuss stormwater control measures for new and expanding substations. Attendees will have the opportunity to have all their questions answered by an expert Q&A panel.

LEARNING OUTCOMES

- Discuss project planning and feasibility
- Explain how to design a substation with the community in mind
- Review Southern California Edison's public participation in substation siting
- Describe regional considerations for substation permitting & siting
- Discuss permitting and siting from a regulatory perspective, including federal, state, and local requirements
- Review Clean Water Act Section 404 permitting considerations for substation construction
- Describe air permitting for new substations
- Describe stormwater control measures for substations
- Participate in a substation permitting and siting Q&A panel session

WHO SHOULD ATTEND

- Substation project managers and developers
- Regulatory affairs professionals
- Substation construction professionals
- Substation engineers
- Construction firms involved in substation projects
- Utility environmental managers
- Biologists, botanists, and environmental scientists

AGENDA

WEDNESDAY, SEPTEMBER 27, 2017

- 8:00 – 8:30 am** **Registration and Continental Breakfast**
- 8:30 – 9:15 am** **Keynote:**
Commissioner Wendy Moser, Colorado Public Utilities Commission
- 9:15 – 10:00 am** **Project Planning & Feasibility**
This session will address project planning as it relates to substation siting and permitting, including:
- Planning (critical issues)
 - Developing alternatives
 - Identifying opportunities and constraints/Siting considerations
 - Landowner and regulatory outreach
 - Permitting
 - Preliminary engineering
 - Constructing
- Michelle Bissonette, Sr. Vice President, HDR***
- 10:00 – 10:15 am** **Networking Break**
- 10:15 – 11:15 am** **Design with the Community in Mind**
- Looking at the project holistically
 - Working with the project team early in the process to understand the environment
 - Developing community interface plan
 - Maintaining open communications with the municipality and the public
 - Gathering input as appropriate and prudent
 - Maintaining outreach log
 - Lessons learned
- Chris Hughes, Project Manager, The United Illuminating Company***
- 11:15am – 12:00 pm** **Public Participation in Substation Permitting & Siting**
Although substations may not impact communities like transmission lines, public engagement is still a critical component to minimizing stakeholder opposition and ensuring a substation project is successfully permitted. In this session, the Public Affairs team at Southern California Edison (SCE) will share its knowledge and experience in public engagement over the past decade in the siting and permitting of small and large substations. SCE will share its best practices and lessons learned on designing public engagement plans, using different techniques to inform and engage various project stakeholders throughout the siting and permitting processes, and handling challenges or concerns typically raised by the public and stakeholders on substation projects.
- Michael Huynh, Public Affairs Account Director, Southern California Edison***
Lydia Roman, Public Affairs Account Director, Southern California Edison
- 11:30 – 12:30 pm** **Group Luncheon**

AGENDA

12:30 – 1:15 pm

Permitting & Siting from a Regulatory Perspective

- Federal requirements: FERC, DOE, U.S. Fish & Wildlife
- State requirements
 - o State regulatory commission approvals
 - o Cost recovery from customers
 - o Resource planning issues
 - Transmission
 - Distribution
 - System planning
 - o Environmental
- Local requirements
 - o Building permits
 - o Zoning/setbacks
 - o Land acquisition/lease/condemnation
- o Cultural and historical resources review
- o Security issues as part of the permitting and siting process

Mark Davidson, Director, Fairfield and Woods

1:15 – 2:00 pm

Clean Water Act Section 404 Permitting Considerations for Substation Construction

Section 404 of the Clean Water Act regulates activities which result in the discharge of fill into Waters of the United States. This presentation will provide an introduction to identifying the potential presence of Waters of the United States at proposed substation sites and the process for obtaining U.S. Army Corps of Engineers authorization to impact these features during substation construction.

Noah Greenberg, Senior Aquatic Resource Scientist, Wright Water Engineers

2:00 – 2:45 pm

Air Permitting for New Substations

- An overview of permitting and regulation under the federal Clean Air Act and state air laws
- Air requirements for substations adjacent to generating facilities
- Air requirements/impacts of non-adjacent generating plants on substations
- The impact of air requirements on grid operations

James Holtkamp, Of Counsel, Holland and Hart

2:45 – 3:00 pm

Afternoon Break

3:00 – 3:45 pm

Permanent BMPs for Substations: Picking the Right Tool for the Job

This presentation will focus on selection of permanent BMPs (aka stormwater control measures) for water quality treatment at substation sites. Many existing substations were constructed before current water quality requirements came into effect. For expansions or modifications to substations, it is often necessary to provide water quality treatment for the expansion area, and in some cases the whole substation area. In some cases, detention to control peak runoff rates is also required. Substations present special challenges for designing BMPs due to the grid underlying substation sites, the use of herbicides to control vegetation, and other factors. This presentation will review BMP selection factors and will provide examples of how sand filters and level spreaders have been effectively implemented on substation sites.

Andrew Earles, Vice President of Water Resources, Wright Water Engineers

3:45 – 5:00 pm

Substation Permitting & Siting Hot Topics Panel

This panel presents an opportunity to pose your questions to industry experts. Panelists include:

Moderator: Mark Davidson, Director, Fairfield and Woods

Michelle Bissonette, Sr. Vice President, HDR

Michael Huynh, Public Affairs Account Director, Southern California Edison

Noah Greenberg, Senior Aquatic Resource Scientist, Wright Water Engineers

Chris Hughes, Project Manager, The United Illuminating Company

5:00 pm

Conference Adjourns

INSTRUCTIONAL METHODS

Case studies, PowerPoint presentations and classroom exercises will be used in this event

REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for a minimum of four hours to be eligible for any continuing education credit.

IACET CREDITS



EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

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EVENT LOCATION

A room block has been reserved at the Sheraton Denver Downtown Hotel, 1550 Court Place, Denver, CO 80202, for the nights of September 24-28, 2017. Room rates are US \$219, plus applicable tax. Call **1-303-893-3333** for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is August 27, 2017 but as there are a limited number of rooms available at this rate, the room block may close sooner. ***Please make your reservations early.***



Please make checks payable to: "PMA"

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PLEASE REGISTER

- BOTH SUBSTATION PERMITTING & SITING SYMPOSIUM AND GIS 101: AN INTRODUCTION TO GAS INSULATED SUBSTATIONS COURSE**
 SEPTEMBER 27-29, 2017: US \$2095,
 Early bird on or before September 8, 2017: US \$1895

- SUBSTATION PERMITTING & SITING SYMPOSIUM ONLY**
 SEPTEMBER 27, 2017: US \$995,
 Early bird on or before September 8, 2017: US \$895

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

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OR Enclosed is a check for \$ _____ to cover _____ registrations.

Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before August 25, 2017 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of symposium cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at (201) 871-0474.